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TITLE: Markers of Breast Cancer Risk in Women with Benign Breast

Disease

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CONTRACTING ORGANIZATION: Group Health Cooperative

Seattle, Washington 98101

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| Although certain risk fac | tors for breast cancer, | such as never hav | ing giving | birth, have been | | | |
| established, the biologic | mechanisms by which the | se factors increas | se the risk | of breast cancer is | | | |
| not well understood. Severe measure is the rate that | reral of the possible med | nanisms can be mea which increases th | he chance o | f the genetic errors | | | |
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| risk in normal breast tis | sue. To do this we will | identity and ret: | rieve the t | issue specimens from | | | |
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Proposal Title:

Markers of Breast Cancer Risk in Women with Benign Breast Disease

Principal Investigator: Margaret T. Mandelson, PhD

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Introduction

A history of benign breast disease (BBD) is associated with an increase in risk of breast cancer, however risk differs according to the histological characteristics of BBD and other factors. Although histopathology can identify subsets of women with BBD at increased risk (e.g. women with atypical hyperplasia), few women fall into these high risk categories and most will not go on to develop breast cancer.

The aim of this pilot project is to establish a breast tissue repository that can be used in future studies of markers of breast cancer risk in normal breast tissue. To do this we will identify and retrieve the tissue specimens from women who are members of Group Health Cooperative (GHC) who underwent excisional breast biopsy with benign findings between 1980 and 1999. We will identify women who had a benign breast biopsy and later developed invasive breast cancer. We will also identify women who had a biopsy but did not develop cancer to serve as the control group.

Establishment of this tissue repository will lay a critical foundation for future studies of the pathogenesis of breast cancer. Ultimately, improved understanding of why some women are at increased risk for breast cancer will facilitate the development of new strategies for breast cancer prevention.

Body

To date, we have identified 135 women with breast cancer who had a previous benign breast biopsy finding at Group Health Cooperative. We have retrieved the benign and malignant tissue specimens from 36 of these women. We are continuing to identify subjects for whom benign and malignant specimens still exist as well as identifying the control subjects who had benign findings but did not later develop breast cancer.

Key Research Accomplishments

- 135 cases (women diagnosed with breast cancer who had prior benign breast biopsy) identified.
- Benign and malignant specimens retrieved from 36 of these women.

Reportable Outcomes

No reportable outcomes at this time.

Conclusions

No reportable conclusions at this time.

References

No applicable references for this report.

Appendices

No appendices at this time.